



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

January 29, 2020

Kevin Finnegan  
Registration Specialist  
FMC Corporation  
2929 Walnut Street  
Philadelphia, PA 19104

Subject: Notification per PRN 98-10 – Updated manufacturer address, product registration numbers, and amended label discrepancies  
Product Name: Proaxis Premise Insecticide  
EPA Registration Number: 279-3612  
Application Date: 7-Nov-2018; 13-Aug-2019  
Decision Number: 546241; 554437

Dear Mr. Finnegan:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 for the above referenced product. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested falls within the scope of PRN 98-10.

The label submitted with the application has been stamped “Notification” and will be placed in our records.

If you have any questions, you may contact please contact Matthew Aubuchon at 703 347-0477 or by email at [Aubuchon.Matthew@epa.gov](mailto:Aubuchon.Matthew@epa.gov).

Sincerely,

A handwritten signature in cursive script that reads "J. Herrick".

Jacquelyn Herrick, Product Manager 03  
Invertebrate & Vertebrate Branch 1  
Registration Division (7505P)  
Office of Pesticide Programs

**NOTIFICATION**

279-3612

The applicant has certified that no changes, other than those reported to the Agency have been made to the labeling. The Agency acknowledges this notification by letter dated:

01/29/2020

**Proaxis®**

**Controlled Release Premise Insecticide**

- A microencapsulated insecticide for use on and around buildings and structures for the control of listed pests, including on lawns, ornamental trees and shrubs, around residential, institutional, public, commercial, agricultural and industrial buildings; parks, recreational areas and athletic fields; and livestock/poultry housing and pet kennels. *[ optional marketing statement ]*
- For control of litter beetles, flies, fleas, mosquitoes, ants, bees, wasps, crickets, pillbugs, scorpions, sowbugs, spiders, and ticks. *[ optional marketing statement ]*
- For control of litter beetles, fleas, flies and other listed pests of livestock/poultry housing, pet kennels, railcars, trucks and trailers. *[ optional marketing statement ]*
- Effective against adults and immature Darkling, Hide and Carrion beetles. *[ optional marketing statement ]*
- Can be reapplied at 21-day intervals. *[ optional marketing statement ]*
- Highly concentrated. *[ optional marketing statement ]*
- Micro-encapsulated formula ensures slow release. *[ optional marketing statement ]*
- One quart treats up to 48,000 square feet when treating for litter beetles. *[ optional marketing statement ]*
- Treats up to 24,000 square feet when treating for litter beetles. *[ optional marketing statement ]*
- Dilution rate of 1-2 oz. per 3 gallons of water. *[ optional marketing statement ]*
- Can be used on entire footing, crack and crevice or banded applications. *[ optional marketing statement ]*
- CapVantage™ Technology. *[ optional marketing Logo ]*

Active Ingredient:

Gamma-cyhalothrin: Cyclopropanecarboxylic acid, 3-(2-chloro-3,3,3-trifluoro-1-propenyl)- 2,2-dimethyl,cyano(3- phenoxyphenyl) methyl ester.....	5.9%
Other Ingredients .....	<u>94.1%</u>
Total.....	100.0%

Contains 0.5 pounds of active ingredient per gallon  
Contains petroleum distillate.

**Keep Out Of Reach Of Children**

**CAUTION                      PRECUAÇÃO**

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.  
(If you do not understand the label, find someone to explain it to you in detail.)

**Note to PM**, the following bracketed statements are individually optional depending on the packaging configuration and whether a booklet label design is used:

- a. [See First Aid statement on back panel of booklet.]
- b. [See First Aid statement on back panel.]
- c. [See additional precautionary statements and Directions for Use in booklet.]
- d. [See label booklet for additional Precautionary Statements, Directions for Use, and Storage and Disposal.]

**Refer to label booklet for Directions for Use.**

Apply this product directly to lawn or garden area. Water treated area as directed on this label. Do not water to the point of run-off.

Do not make applications during rain.

Application is prohibited directly into sewers or drains, or to any area like a gutter where drainage to sewers, storm drains, water bodies, or aquatic habitat can occur. Do not allow the product to enter any drain during or after application.

**Notice:** Shake well before use. Avoid freezing. Read the entire label. Use only according to label directions. **Before using this product, read Warranty Disclaimer, Inherent Risks of Use, and Limitation of Remedies at end of label booklet. If terms are unacceptable, return at once unopened.**

In case of emergency endangering health or the environment involving this product, call 1-800-331-3148.

EPA Reg. No. ~~279-3612 67760-104~~

EPA Est. xxxx



~~® Registered trademark of Cheminova, Inc.~~

~~Cheminova, Inc. FMC Corporation  
P.O. Box 110566 2929 Walnut Street  
One Park Drive Philadelphia, PA 19104  
Research Triangle Park, NC 27709~~

# Proaxis®

## Premise Insecticide

[A microencapsulated insecticide][A Controlled Release Premise Insecticide][F/for] use on and around buildings and structures for the control of listed pests, including on lawns, ornamental trees and shrubs, around residential, institutional, public, commercial, agricultural and industrial buildings; parks, recreational areas and athletic fields; and livestock/poultry housing and pet kennels. *[optional statement]*

### Keep Out Of Reach Of Children

## CAUTION      PRECUAÇÃO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.  
(If you do not understand the label, find someone to explain it to you in detail.)

Notice: Read entire label. Use only according to label directions.

Cheminova, Inc. FMC Corporation  
P.O. Box 110566 2929 Walnut Street  
One Park Drive Philadelphia, PA 19104  
Research Triangle Park, NC 27709

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### Precautionary Statements

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#### Hazards to Humans and Domestic Animals

**CAUTION:** Causes moderate eye irritation. Harmful if swallowed. Avoid contact with eyes, skin, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash clothing before reuse. Wear safety glasses or goggles, long sleeve shirt, long pants, shoes and socks, and chemical - resistant gloves. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals.

Skin exposure may also result in a sensation described as tingling, itching, burning or prickly feeling. Onset may occur immediately to 4 hours after exposure and may last 2 to 30 hours, without damage. Wash exposed areas thoroughly with soap and water. Relief from skin sensation may be obtained by applying an oil-based cream.

### **First Aid**

**If in eyes:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

**If swallowed:** Call a poison control center or doctor immediately for treatment advice. Do not induce vomiting unless told to do so by a poison control center or doctor: Do not give **any** liquid to the person. Do not give anything by mouth to an unconscious person.

**Note to Physician:** Induced vomiting as first aid for this substance may result in increased risk of chemical pneumonia or pulmonary edema caused by aspiration of the hydrocarbon solvent. Vomiting should be induced only under professional supervision.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-331-3148 for emergency medical treatment information.

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## **Environmental Hazards**

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This pesticide is extremely toxic to fish and aquatic organisms and toxic to wildlife. To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Rinsing application equipment over the treated area will help to avoid run off to water bodies or drainage systems.

Do not allow applications to contact water inhabited by fish, such as aquariums and ornamental fish ponds that are located in and around structures being treated.

This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.

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## **Physical and Chemical Hazards**

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Do not use or store near heat or open flame.

Do not use **Proaxis Premise Insecticide** in conduits, motor housings, junction boxes, switch boxes, or other electrical equipment because of possible shock hazard.

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## Directions For Use

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It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Do not dilute this product with oil.

Apply this product directly to lawn or garden area. Water treated area as directed on this label. Do not water to the point of run-off.

Do not make applications during rain.

Application is prohibited directly into sewers or drains, or to any area like a gutter where drainage to sewers, storm drains, water bodies, or aquatic habitat can occur. Do not allow the product to enter any drain during or after application.

Let treated surfaces dry before allowing humans and pets to contact these surfaces.

This product is RESTRICTED for use in New York state.

All outdoor applications must be limited to spot or crack-and-crevice treatments only, except for the following permitted uses:

- 1 - Treatment to soil or vegetation around structures;
- 2 - Applications to lawns, turf, and other vegetation;
- 3 - Applications to building foundations, up to a maximum height of 3 feet.

Other than applications to building foundations, all outdoor applications to impervious surfaces such as sidewalks, driveways, patios, porches, and structural surfaces (such as windows, doors, and eaves) are limited to spot and crack-and-crevice applications only.

### PREMISE AND PERIMETER PEST CONTROL

**Proaxis Premise Insecticide** is for use as a general surface (non-food/non-feed areas), crack and crevice, or spot treatment in, on, and around buildings and structures and their immediate surroundings, and on modes of transport. Areas of use include, industrial buildings, houses, patios, porches, closets, furniture, apartment buildings, mobile homes, laboratories, buses, greenhouses (non-commercial), stores, factories, warehouses, wineries, vessels, railcars, trucks, trailers, aircraft (cargo and other non-cabin areas only), schools, nursing homes, hospitals, mausoleums, restaurants, hotels, correctional facilities, livestock/poultry housing, pet kennels, food granaries, food grain mills and food manufacturing, processing, and servicing establishments.

Non-food/non-feed areas of food/feed handling establishments include garbage rooms, lavatories, ~~floor drains (to sewers)~~, entries and vestibules, offices, locker rooms, machine rooms, boiler rooms, garages, mop closets, and storage (after canning or bottling).

For indoor applications, **Proaxis Premise Insecticide** can be reapplied at 21-day intervals if necessary.

### Mixing Instructions

Dilute **Proaxis Premise Insecticide** with water for application using hand-held or power-operated application equipment as a coarse spray for crack and crevice or spot and general surface (non-food/ non-feed areas only) treatments. Application equipment that delivers low volume treatments, such as the Micro-Injector® or Actisol® applicator, may also be used to make crack and crevice or spot and general surface treatments. Fill applicator tank with the desired volume of water and add **Proaxis Premise Insecticide**. Close and shake before use in order to ensure proper mixing. Shake or re-agitate applicator tank before use if application is interrupted. Mix only amount of treatment volume as required. **Proaxis Premise Insecticide** may be applied by using a paintbrush or other porous applicator attached to a handle as a general surface treatment.

### Tank Mixing

**Proaxis Premise Insecticide** may be tank mixed with other currently registered pesticides unless expressly prohibited by the product label. A small volume mixing test with the other products is recommended to ensure compatibility. If other chemicals are added to the applicator tank, **Proaxis Premise Insecticide** should be added last. If mixed with EC formulations, use within 24 hours. Fill tank to desired volume and continue to agitate while making applications.

**Proaxis Premise Insecticide** may be tank mixed with an Insect Growth Regulator (IGR). Observe all restrictions and precautions which appear on the labels of these products.

### Foam Applications

**Proaxis Premise Insecticide** may be converted to a foam and the foam used to treat premise voids to control or prevent pests including ants, bees, termites (above ground only), wasps, or other arthropods harboring in walls, under slabs, or in other void areas.

### RATES FOR PESTS (HAND APPLICATION EQUIPMENT)

Pests	Dilution Rate (Concentration of AI)	Specific Use Directions
Ants	Rate range	<b>Ants:</b> Apply to any trails around doors and windows and other places where ants may be found. Locate and treat nests. Where ants are trailing inside apply as a residual surface treatment to active areas such as baseboards corners around pipes and behind cabinets behind and under refrigerators, sinks, furnaces, and stoves cracks and crevices. When combining baits and residual surface insecticides apply surface insecticides in cracks and crevices along
Bedbugs (adult)		
Bees	0.0075% AI	
Boxelder Bugs	0.16 fl oz (5 ml) / gal	
Carpenter Bees	water	
Carpet Beetles	0.5 fl oz (15 ml) / 3 gal	
Centipedes	water	
Cigarette Beetles		
Clover Mites	Up to	
Cockroaches( 1)		
Confused Flour Beetles	0.015% AI	
Crickets	0.33 fl oz (10 ml) / gal	
Earwigs	water	

<p>Firebrats  Fleas(2)  Flies (including House flies, stable flies, little house flies)  Lesser Grain Borers  Millipedes  Mosquitoes  Red Flour Beetles  Rice Weevils  Saw-toothed Grain Beetles  Silverfish  Sowbugs  Spiders  Ticks  Wasps</p>	<p>1.0 fl oz (30 ml) / 3 gal water</p>	<p>baseboards and infested surfaces and outside barrier treatments. Use baits in other areas that are untreated by residual insecticides also see <b>Outdoor Surfaces Use</b>.</p> <p><b>Bedbugs:</b> Clean floors and surfaces by vacuuming. Apply as a coarse low pressure spray to harborage areas including crevices, baseboards, loose plaster, behind bed frames and headboards, beneath beds and furniture, and to bedsprings and bed frames. Do not apply to furniture surfaces or mattresses where people will be laying or sitting. Infested bedding should not be treated, but should be removed, placed in sealed plastic bags, and taken for laundering and drying at high temperatures.</p>
<p>Cockroaches(1)  Crickets(6)  Flies(5)  Litter beetles(3) (Darkling, Hide, and Carrion beetles)</p> <p>Mosquitoes(4)  Pillbugs  Scorpions  Sowbugs</p> <p>Spiders(6)  Spider Mites (Two-spotted, Spruce)  Ticks(6)</p>	<p>0.03% AI  0.65 fl oz (20 ml) / gal water  2.0 fl oz (60 ml) / 3 gal water</p>	<p><b>Cockroaches, Crickets, Earwigs, Firebrats, Silverfish, and Spiders:</b>  Apply as a coarse low pressure spray to areas where these pests hide, such as baseboards, corners, storage areas, closets, around water pipes, doors and windows, attics and eaves, cabinets, behind and under refrigerators, sinks, furnaces and stoves, the underside of shelves, drawers, and similar areas. Pay particular attention to cracks and crevices also see <b>Outdoor Surfaces Use</b>.</p> <p><b>Bees, Flies, Mosquitoes, and Wasps:</b>  Apply directly to walls, ceilings, window screens, and other resting areas as a residual surface treatment. May be used inside residential buildings as well as in and around carports, garages, and storage sheds; also see <b>Outdoor Surfaces Use</b>. Use caution when treating nests of stinging insects as <b>Proaxis Premise Insecticide</b> does not provide instant knockdown. Protective equipment for the applicator may be required.</p>

		<p>Treat bee, wasp, and hornet nests late in the day when most insects will be present. Allow 2-3 days for the colony to die and repeat if necessary.</p> <p><b>Carpenter Bees:</b> Apply coarse spray to thoroughly wet wood surfaces where bees have been previously active or to provide protection against further damage. Apply early in the spring to prevent bees from invading wood. When bees have infested wood surface applications can help control embedded larvae and bees that emerge from the wood.</p> <p><b>Pantry Pests</b> (i.e., Carpet beetle, Cigarette beetle, Confused flour beetle, Lesser grain borer, Red flour beetle, Rice weevil, and Saw-toothed grain beetle): Apply to cupboards, shelving, and storage areas. Remove all utensils, uncovered foodstuffs (or any having original package opened), and shelf paper before making application. Allow treated surfaces to dry and cover shelves with clean paper before replacing any utensils, foodstuff, or other items. Any foodstuff accidentally contaminated with treatment solution should be destroyed.</p> <p><b>Boxelder Bugs, Centipedes, Millipedes, Pillbugs, and Sowbugs:</b> Apply around doors and windows and other places where these pests may be found or where they may enter premises. Treat baseboards, storage areas, and other locations. Apply barrier treatments to prevent infestation as described below; also see <b>Outdoor Surfaces Use</b>.</p> <p><b>Fleas and Ticks:</b> To control nuisance fleas and ticks (e.g. dog ticks) apply to kennels, yards, runs, and other areas where pets may frequent. To control</p>
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		<p>ticks, apply using a coarse fan spray to vegetation brush, branches, rock walls, and other areas near habitation where ticks may harbor or frequent. Treat entire area rather than spot treatments, and retreat monthly to maintain control. Do not apply to pasture or cropland, and do not allow animals and people access to treated areas until the deposit has dried. Applications can begin in the spring and can continue until frost to control both larvae and adult ticks; also <b>see Outdoor Surfaces Use.</b></p> <p><b>Cluster Flies:</b> Apply in late summer or early fall before flies are observed alighting on surfaces. Apply thoroughly on siding, under eaves, and around windows and doors, paying particular attention to south-facing surfaces, but do not allow runoff to occur. Heavy precipitation prior to frost may require retreatments to maintain protection. In winter and spring when flies become active and are emerging, interior crack and crevice and void treatments can help reduce the infestation, along with ULV or general surface application in infested attics or unoccupied lofts.</p> <p><b>Litter Beetles (Darkling, Hide, and Carrion Beetles) and Flies in Animal Housing (Such as Poultry Houses):</b> To control adult litter beetles, apply <b>Proaxis Premise Insecticide</b> to walls and floors and cleanout, before reintroduction of animals. This will suppress beetles that escaped earlier treatment and will help delay onset of future infestations. Pay attention to area where beetles frequently occur, such as walls, supports, cages, stalls, and around feeders. To help control flies, apply a directed application to horizontal surfaces and overhead areas and allow to dry</p>
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		before reintroduction of animals; also see <b>Livestock/Poultry Housing Structures and Pet Kennels</b> .
Termites (above ground only)	0.03% AI 0.65 fl oz (20 ml) / gal water 2.0 fl oz (60 ml) / 3 gal water	<b>Proaxis Premise Insecticide</b> may be used on termites to kill workers or winged reproductive forms which may be present in treated channels at the time of treatment. These applications are not a substitute for mechanical alteration to control subterranean termites, soil treatment labeled termiticides, or fumigation for extensive infestation of drywood termites or other wood-infesting insects but are considered supplemental. This product is not recommended as sole protection against termites. For active termite infestations, get a professional inspection.
<p>Note: One gallon finished dilution typically treats 500 - 1000 sq. ft.</p> <p><sup>1</sup>For cockroaches, the recommended rate for maintenance treatments is 0.0075% and for clean-out treatments is 0.015%. For control of severe infestations, use 0.03% rate.</p> <p><sup>2</sup>For outdoor use only and use 0.015% rate.</p> <p><sup>3</sup>Use the 0.015% (0.33 fl oz (10 mL) / gal water) rate for light beetle infestation.</p> <p><sup>4</sup>For residual control, use 0.03% rate.</p> <p><sup>5</sup>In all states except California, rates for flies may be increased to 0.03% when environmental conditions are severe and/or populations are high.</p> <p><sup>6</sup>For clean out/severe infestations, use 0.03% rate.*</p>		
Conversion Rate: 1 fluid ounce (fl. oz.) equals 29 milliliters (mL).		

### Application Within Food Handling Establishments

For places other than private residences in which exposed food is held processed prepared or served including, but not limited to areas for receiving, storage, packing (canning, bottling, wrapping, boxing), preparing foods, edible waste storage and enclosed processing systems (mills, dairies, edible oils, syrups), and serving areas.

Use as a crack and crevice or spot treatment in and around both food and nonfood areas. Apply in small amounts directly into cracks and crevices, using equipment capable of delivering a pin stream of insecticide, in points between different elements of construction, between equipment and floor, openings leading to voids and hollow spaces in walls, equipment and bases. Food contact surfaces and equipment should be cleaned with an effective cleaning compound and rinsed with potable water before using.

Limit individual spot treatments to an area no larger than 20% of the treated surface. Individual spot treatments may not exceed two sq. ft. Take extreme care that the product is not introduced into the air. Avoid contamination of food and food processing surfaces.

### **Application Within Food Serving Areas**

For facilities where foods are served, such as dining rooms. Apply as a crack and crevice or spot treatment to selective surfaces such as baseboards under elements of construction, and into cracks and crevices. Avoid treating surfaces likely to be contacted by food. (Do not apply when facility is in operation or foods are exposed.) Food must be covered or removed in area being treated. Do not apply directly to food or allow applications to contaminate food.

**NOTE:** Application of this product in the Food Areas and/or Food Serving Areas of Food Handling Establishments other than as a spot and/or crack and crevice treatment is not permitted. Use of application equipment such as the Micro-Injector® or Actisol applicator in food areas should be limited to crack and crevice treatment only.

### **Livestock/Poultry Housing Structures and Pet Kennels**

**Proaxis Premise Insecticide** may be used as a general surface and/or crack and crevice treatment. Treat interior and exterior perimeter applications in and around livestock, poultry and pet housing structures for optimum control. Suitable cleaning practices of the structure must also be followed along with applications of **Proaxis Premise insecticide** to effectively control the listed insects.

LITTER BEETLES: To control adult litter (darkling, hide and carrion beetles) beetles in animal housing, including poultry housing, apply **Proaxis Premise Insecticide** to walls and floors at each grow-out or sanitation procedure, before reintroduction of poultry or other animals. Re-apply after each grow-out or sanitation procedure to control beetles that escaped earlier treatment and delay the onset of further infestations. Beetles frequently occur in areas such as on walls, supports, cages, stalls, and around feeders, so pay careful attention to these places. For poultry houses where birds are grown on litter, treat the floor area. For poultry houses where birds are grown in cages, treat the walls, posts, cage framing, and into cracks and crevices around insulation. Also apply as a perimeter treatment around the outside of the building foundations to prevent beetles from entering from outside. To prevent populations from reaching a problem level, a year-round maintenance program is highly recommended.

### **RESTRICTIONS:**

- **DO NOT** make applications of **Proaxis Premise Insecticide** in areas where animals, except for cattle and calves are present in the facility. Allow treated surfaces to dry completely before restocking the facility.
- **DO NOT** make applications to any animal feedstuffs water or watering equipment.
- **DO NOT** contaminate any animal food feed or water in and around livestock, poultry or pet housing when making applications.

### **Outdoor Surfaces And Perimeters**

To control flies, fleas, mosquitoes, ants, bees, wasps, centipedes, cockroaches, crickets, pillbugs, scorpions, sowbugs, spiders, termites\* (above ground only), ticks and other listed pests, apply **Proaxis Premise Insecticide** with either hand or power application equipment as a residual treatment to ornamental plants next to foundations of buildings and to external surfaces of buildings, porches, screens, door and window

frames, eaves, patios, garages, refuse dumps and other areas where insects rest or congregate. **Proaxis Premise Insecticide** may also be applied to lawns around non-residential buildings, or to refuse dumps or other non-residential areas where these insect pests congregate. Remove all exposed food and cooking utensils. Cover all food handling surfaces or wash thoroughly after treatment and before use. Do not use on edible crops.

For Perimeter treatments, apply a continual band of insecticide around building foundations and around windows, doors, service line entrances, eaves, vents, and other areas to reduce the potential for entry by crawling pests. Before application, remove debris and leaf litter from next to the foundation, cut back vegetation and branches that touch the foundation, and move or rake back rocks, deep mulch, or other potential pest harborage next to the foundation. Apply the band up to 10 ft. wide around the structure (or according to state regulations governing commercial pest control) and upwards along the foundation to 3 ft. and around windows, doors, and roof overhangs. Apply as a coarse spray to thoroughly and uniformly wet the foundation and/or band area so that the insecticide will reach the soil or thatch level where pests may be active.

Amount of concentrate is dependent upon pest species (see pest table and comments), infestation levels, and service interval desired.

\*May be used on termites to kill workers or winged reproductive forms which may be present in treated channels at the time of treatment. These applications are not a substitute for mechanical alteration to control subterranean termites, soil treatment labeled termiticides, or fumigation for extensive infestation of drywood termites or other wood-infesting insects, but are considered supplemental. This product is not recommended as sole protection against termites. For active termite infestations, get a professional inspection.

**Rate Table For Perimeter Barrier Applications**

<b>Application Rate: Fl. oz. (mL) of Proaxis Premise Insecticide</b>	<b>Gals of Water<sup>1</sup></b>	<b>Area of Coverage (sq. ft.)</b>
0.16 fl. oz. (5mL)	1-5 gals.	800-1600 sq. ft.
0.33 fl. oz. (10 mL)	1-5 gals.	800-1600 sq. ft.
0.65 fl. oz. (20mL)	1-5 gals.	800-1600 sq. ft.
<sup>1</sup> Application volume may be greater than 5 gals./800-1600 sq. ft. if required under heavy vegetative or landscaping materials in order to obtain desired coverage.		

**Examples Of Dilutions For Perimeter Barrier Applications**

Application Volume Gals. of Solution per 1,000 sq. ft.	Application Rate Fl. oz. (mL) of Proaxis Premise Insecticide per 1,000 sq. ft.	Fl. oz. (mL) of Proaxis Premise Insecticide to Dilute in Water According to Spray Tank Volumes		
		5 gals	10 gals	50 gals
1 gal per 1,000 sq. ft.	0.16 fl. oz. (5ml) 0.33 fl. oz. (10ml) 0.65 fl. oz. (20 ml)	0.80 fl. oz. (25 ml) 1.65 fl. oz. (50 ml) 3.3 fl. oz. (100 ml)	1.6 fl. oz. (50 ml) 3.3 fl. oz. (100 ml) 6.5 fl. oz. (200 ml)	8 fl. oz. (250 ml) 16 fl. oz. (500 ml) 33 fl. oz. (1000 ml)
2 gal per 1,000 sq. ft.	0.16 fl. oz. (5ml) 0.33 fl. oz. (10ml) 0.65 fl. oz. (20 ml)	0.40 fl. oz. (12.5 ml) 0.80 fl. oz. (25 ml) 1.65 fl. oz. (50 ml)	0.80 fl. oz. (25 ml) 1.65 fl. oz. (50 ml) 3.3 fl. oz. (100 ml)	4 fl. oz. (125 ml) 8 fl. oz. (250 ml) 16 fl. oz. (500 ml)
5 gal per 1 000 sq. ft.	0.16 fl. oz (5ml) 0.33 fl. oz (10ml) 0.65 fl. oz (20 ml)	0.16 fl. oz. (5ml) 0.33 fl. oz. (10ml) 0.65 fl. oz. (20 ml)	0.33 fl. oz. (10 ml) 0.65 fl. oz. (20 ml) 1.65 fl. oz. (50 ml)	1.6 fl. oz. (50 ml) 3.3 fl. oz. (100 ml) 6.5 fl. oz. (200 ml)

**Example calculation:** to apply the mid-rate of **Proaxis Premise Insecticide** at a volume of 5 gal /1,000 sq. ft. mix 3.3 oz of concentrate in 50 gallons of water. The percent active ingredient in the finished **Proaxis Premise Insecticide** dilution can be calculated with the following formula:

mL needed to add times 5.9% active in concentrate, divided by gal. finished dilution times 3785 ml/gal =% active in dilution (Example: 3.3 oz in 50 gal. is 100 mL times 5.9 equals 590, and 50 gal, times 3785 is 189,250. Dividing 590 by 189,250 equals 0.003% active in the tank dilution.)

**NOTE:** Do not use water based sprays of **Proaxis Premise Insecticide** in conduits, motor housings, junction boxes, switch boxes, or other electrical equipment because of possible shock hazard. Thoroughly wash out sprayer and screen with water and detergent before using **Proaxis Premise Insecticide**. **Proaxis Premise Insecticide** has not stained or caused damage to painted or varnished surfaces, plastics fabrics, or other surfaces where water applied alone causes no damage. However, treat a small area and allow to dry, to determine whether staining will occur.

**LET TREATED SURFACES DRY BEFORE ALLOWING HUMANS AND PETS TO CONTACT SURFACES**

**RESTRICTIONS:**

- DO NOT use this product with oil.
- DO NOT apply this product in any room being used as living, eating, sleeping, or recovery area by patients, the elderly, or infirm when they are in the room.
- DO NOT apply to institutions (including libraries, sports facilities, etc. ) in the immediate area when

occupants are present.

- DO NOT apply to classrooms when in use.
- DO NOT apply this product to edible growing crops or stored raw agricultural commodities used for food or feed.
- DO NOT allow applications to contact water inhabited by fish, such as in aquariums and ornamental fish ponds that are located in/around structures being treated.

### **LAWNS/TURFGRASS AND ORNAMENTALS**

**Proaxis Premise Insecticide** may be used for applications to maintain indoor or outdoor areas where turf and ornamentals are grown such as residential landscaped areas and non-residential landscapes around institutional, public, commercial and industrial buildings, parks, recreational areas, and athletic fields (Including trees, shrubs, flowers, evergreens, foliage plants, and groundcovers). Application rates for turf and ornamentals are lower than premise pest control rates, reflecting that treatment intervals are more frequent.

Applicators must ensure that they are certified in the necessary pesticide certification categories to allow application of **Proaxis Premise Insecticide** away from structures such as to turf and ornamental plantings. Premise pest control certification categories may limit the distance away from structures for pesticide application. Consult your state extension office or pesticide regulatory officials for further information.

**IMPORTANT:** Time application to flowering plants during periods when pollinating insects are not present such as early morning or late evening.

#### **RESTRICTIONS:**

- **DO NOT** apply this product through any type of irrigation system.
- **DO NOT** apply this product to edible crops.
- **DO NOT** apply this product by aerial application.
- Use of this pesticide adjacent to water may affect aquatic organisms. To protect these organisms **DO NOT** apply this pesticide within 25 ft. of lakes, reservoirs, rivers, permanent streams, marshes, or natural ponds, estuaries, and commercial fish farm ponds.
- **DO NOT** make outdoor broadcast applications to turf and ornamentals when wind speed is 15 mph or greater.
- In the state of New York, **DO NOT** apply within 100 ft. of coastal marshes or streams that drain into coastal marshes.

#### **Mixing Instructions**

**Proaxis Premise Insecticide** is to be mixed with water and may be used in all types of standard application equipment. Fill applicator tank with the desired volume of water and add **Proaxis Premise Insecticide**. It is suggested that the water be 5 - 7 pH. Adjust water pH with a buffering agent if necessary. Slowly add **Proaxis Premise Insecticide** to applicator tank water with maximum agitation. Close and shake or re-agitate applicator tank before use if application is interrupted. Make up only amount of treatment volume as required.

### Tank Mixing

**Proaxis Premise Insecticide** may be tank mixed with other currently registered pesticides unless expressly prohibited by the product label. A small volume mixing test with the other products is recommended to ensure compatibility. If other chemicals are added to the applicator tank, **Proaxis Premise Insecticide** should be added last. Fill tank to desired volume and continue to agitate while making applications. If mixed with EC formulations use within 24 hours.

Observe all restrictions and precautions which appear on the labels of these products.

### INSECT CONTROL on ORNAMENTAL PLANTS

**Proaxis Premise Insecticide** is for use to control the pests listed in the table below in such areas as residential landscaped areas and landscaped areas around institutional, public, commercial and industrial buildings, parks, recreational areas, and athletic fields (including trees, shrubs, flowers, evergreens, foliage plants, and groundcovers).

**NOTE:** While phytotoxicity testing has been earned out on a wide range of ornamental plants under various environmental conditions and no phytotoxicity has been observed certain cultivars may be sensitive to the final spray solution.

It is advised to pre-spray a selection of ornamental plants and observe them for 7-10 days prior to treating large areas if local use experience is unavailable.

### RESTRICTIONS:

- **DO NOT** apply more than 0.18 lbs. of the a.i. (46.1 fl. ozs. of concentrate) per acre per year.

### TANK DILUTION RATES FOR ORNAMENTAL PESTS

Pest	Amount Of Proaxis Premise Insecticide	Application Instructions
Ants (Including Imported fire Ants) Armyworms Azalea caterpillars Aphids Bagworms Black vine weevils (adult) Boxelder bugs Budworms California oakworms Cankerworms Cockroaches Crickets Cutworms Eastern tent caterpillars Elm leaf beetles European sawflies	1.3-4.4 fl. oz. per 100 gals.  or  39 - 132 mL per 100 gals.	Application to ornamentals should be started prior to the establishment of high insect pest populations.  Apply at 7-day intervals if retreatment is necessary. Limit more frequent treatment to spot treatments.  Good spray coverage is necessary to provide the most effective level of control. Addition of a spreader-sticker at recommended rates may enhance the control of insects on certain species of ornamentals having waxy, hard to wet foliage.

<p>Fall webworms  Flea beetles  Forest tent caterpillars  Gypsy moth larvae  Japanese beetles (adults)  June beetles (adults)  Lace bugs  Leaf-feeding caterpillars  Leafhoppers  Leafminers (adults)  Leaf rollers  Leaf skeletonizers  Midges  Mosquitoes  Oleander moth larvae  Pillbugs  Pine sawflies  Pine shoot beetles  Pinetip moths  Plant bugs  Root weevils  Sawflies  Scale insects (crawlers)  Spiders  Spittlebugs  Striped beetles  Striped oakworms  Thrips  Tip moths  Tussock moth larvae  Wasps</p>		<p>For spot treatments use 0.44 fl. oz. <b>Proaxis Premise Insecticide</b> per 1 – 2.5 gals of water.</p> <p>Consult your state university or local Cooperative Extension Service office for specific pest control application timing in your area.</p> <p><b>Scale:</b> Thoroughly cover the plant with <b>Proaxis Premise Insecticide</b> spray including trunks, stems, twigs, and foliage for control of scale insects (crawler stage).</p> <p><b>Bagworm:</b> Apply <b>Proaxis Premise Insecticide</b> when bagworm larvae begin to hatch. Spray directly on the larvae. Application is the most effective when the larvae are young.</p>
<p>Broadmites  Brown softscales  California redscales (crawlers)  Clover mites  Mealybugs  Pineneedlescales (crawlers)  Spider mites  Whiteflies</p>	<p>2.6 – 4.4 fl. oz.  per 100 gals</p> <p>or</p> <p>78 - 132 mL per  100 gals.</p>	

**Proaxis Premise Insecticide Mixing Chart for Ornamental Insect Pest Control**

(Proaxis Premise Insecticide to add per spray tank)

Rate of Proaxis Premise Insecticide	25 Gals.	50 Gals.	100 Gals.	200 Gals.	300 Gals.
1.32 oz. <sup>1</sup>	0.30 oz.	0.70 oz.	1.32 oz.	2.6 oz.	3.96 oz.
2.64 oz. <sup>2</sup>	0.70 oz.	1.30 oz.	2.64 oz.	5.3 oz.	7.92 oz.
4.4 oz. <sup>3</sup>	1.10 oz.	2.20 oz.	4.40 oz.	8.8 oz.	13.2 oz.

<sup>1</sup>Equivalent to 3.2 mL per 1,000 sq. ft. (4.7 oz. per acre) when applied at 8 gal. per 1,000 sq. ft.  
<sup>2</sup>Equivalent to 6.3 mL per 1,000 sq. ft. (9.3 oz. per acre) when applied at 7 gal. per 1,000 sq. ft.  
<sup>3</sup>Equivalent to 10.6 mL per 1,000 sq. ft. (15.6 oz. per acre) when applied at 8 gal. per 1,000 sq. ft.

**LAWN/TURFGRASS INSECT PEST CONTROL**

**Proaxis Premise Insecticide** is for use to control the pests listed in the table below around such areas as residential, institutional, public, commercial and industrial buildings, parks, recreational areas, and athletic fields.

**RESTRICTIONS:**

- *KEEP CHILDREN AND PETS OFF TREATED AREAS UNTIL SPRAY HAS DRIED FOLLOWING APPLICATION*
- **DO NOT** apply when turfgrass is waterlogged or when soils are saturated with water (i.e. will not accept irrigation)
- **DO NOT** apply more than 0.18 lbs of a.i. (46.1 fl. oz. of concentrate) per acre per year.

**RATES FOR LAWN AND TURFGRASS PESTS**

Pest	Amount Of Proaxis Premise Insecticide *	Application Instructions
Ants (Including Imported fire Ants) Armyworms Centipedes Crickets Cutworms Earwigs Fleas (adult) Grasshoppers Japanese beetles (adult) Millipedes Mites Mosquitoes (adult) Pillbugs Sod webworms Sow bugs Ticks (including species which	3.0 – 6.1 mL per 1,000 sq. ft.  or  4.4 8.8 fl. oz. per acre	Application to turf should be started prior to the establishment of high insect pest populations and significant turf damage. To keep pest populations under control, use higher rates as pest pressure increases.  Apply at 7-day intervals if retreatment is necessary. Limit more frequent treatment to spot treatments.  For <b>spot treatments</b> , use 0.20 fl. oz. of <b>Proaxis Premise Insecticide</b> per 1 – 2.5 gals. of water.  <b>Surface Insect Control (armyworm, cutworms, fleas, etc.): Apply Proaxis</b>

Transmit Lyme disease)		<p><b>Premise Insecticide</b> at recommended rates in 2 – 5 gals of water per 1,000 sq. ft. The use of spreader-sticker may be useful if high rainfall amounts are forecast, otherwise the addition of adjuvants is not necessary under normal conditions for surface insect control in turf. Delay watering or mowing for 12 – 24 hours to control surface-feeding insect pests.</p>
<p>Bluegrass billbugs (adult)  Black turfgrass Ataenius (adult)  Chiggers  <u>Chinch Bugs<sup>1</sup></u>  Fleas (adult)  Grubs (suppression)  Hyperodes weevils (adult)  Mole crickets<sup>1</sup> (nymphs and young adults)</p>	<p>6.1 mL per 1,000 sq. ft.    or    8.8 fl. oz. per acre</p>	<p><b>Thatch Inhabiting Insect Control (chinch bugs, billbugs, etc.):</b> Apply <b>Proaxis Premise Insecticide</b> at recommended rates in 2 – 10 gals of water per 1,000 sq. ft. The use of a nonionic wetting agent, penetrant or similar adjuvant is recommended at label rates. Lightly irritate after application with up to ½ inch of water to move the <b>Proaxis Premise Insecticide</b> into the thatch layer. If irrigation is not available, then use high water application rates.</p> <p><b>Subsurface Insect Control (mole crickets, grubs, etc.):</b> Apply <b>Proaxis Premise Insecticide</b> at recommended rates in 4 – 10 gals of water per 1,000 sq. ft. The use of a nonionic wetting agent, penetrant, or similar adjuvant is strongly recommended following label rates. Use the highest water application rates possible with your sprayer. Apply <b>Proaxis Premise Insecticide</b> to turf wet with dew, rain, or irrigation. Water-in immediately after application ¼ - ½ inch of water.</p> <p><b>Fire Ant Control:</b> Treat individual mounds with a drench application using a watering can. Use 0.20 fl. oz. of <b>Proaxis Premise Insecticide</b> per 2.5 gals of water. Thoroughly soak each mound and a 3 ft. diameter circle around each mound. Gently apply the mixture to avoid disturbing the mound. Disturbing the mound may cause the ants to migrate and reduce the effectiveness of the treatment. Apply in early morning or late evening hours. You may make applications on a</p>

		<p>monthly basis to maintain protection of treated areas.</p> <p><b>Mosquito Control:</b> Apply as a general spray around landscape plantings, turf, and building foundations to control mosquitoes. Apply <b>Proaxis Premise Insecticide</b> at recommended rates in 2 – 5 gals of water per 1,000 sq. ft.</p>
<sup>1</sup> Not for use on mature adult mole crickets and chinch bugs in New York state.		
<p>*Example: To treat the listed turf pests at the 3.5 mL per 1,000 sq. ft. rate, determine the gallons of dilution per 1,000 sq. ft. needed to adequately cover the turf. At a 5 gallon per 1,000 sq. ft. dilution, take the 3.5 mL and divide it by the 5 (gallon) to get 0.7 mL to be added per gallon. For a 50 gallon tank, therefore, this would be 0.7 mL X 50 = 35 mL (or 1.25 oz.) in 50 gallons of water.</p>		
<p>Conversion Rate: 1 fluid ounce (fl. oz.) equals 29 milliliters (mL).</p>		

**Proaxis Premise Insecticide Mixing Chart for Turf Insect Pest Control**

(Proaxis Premise Insecticide to add per 100 gal. spray tank)

Rate of Proaxis Premise Insecticide	App. Rate per 1,000 Sq. Ft. of Turf (oz.)					
	(Fl oz per ac)	2 gal.	4 gal.	5 gal.	6 gal.	8 gal.
4.4 oz per ac	5.1	2.5	2.0	1.7	1.3	1.0
6.6 oz per ac	7.6	3.8	3.0	2.5	1.9	1.5
8.8 oz per ac	10.1	5.1	4.0	3.4	2.5	2.0
Conversion rate: 1 fluid ounce (fl. oz.) equals 29 milliliters (mL).						

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**INTEGRATED PEST AND RESISTANCE MANAGEMENT**

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Many insects have demonstrated the ability to develop resistance to insecticides. Frequent exposure of flies and other insects to a single class of insecticide may lead to the development of resistance to that class of insecticide. The following resistance management strategy will help ensure the prolonged usefulness of this and other conventional insecticides.

- Use **Proaxis Premise Insecticide** and other insecticides only according to label directions.
- Do not use less than the labeled rate of any insecticide.
- Include multiple cultural and/or biological controls within an Integrated Pest Management Program.
- Rotate **Proaxis Premise Insecticide** with other classes of insecticide (naturalytes, phenyl pyrazoles, chloronicotinyls, and organophosphates, etc.) during an insect pest season.

For advice concerning integrated pest management practices in relation to local conditions, consult resources in resistance management programs, your Cooperative Agricultural Extension Service or your Cheminova Animal Health representative (1-800-303-6950).

#### Storage and Disposal

Do not contaminate water, food, or feed by storage and disposal.

**Pesticide Storage:** Store in original containers only. Keep container closed when not in use. Do not store near food or feed. Do not store near heat or open flame. **Do not allow product to freeze.**

**In case of spill or leak** on floor or paved surfaces, soak up with sand, earth or synthetic absorbent. Remove to chemical waste area.

**Pesticide Disposal:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If wastes cannot be disposed of according to label directions, contact your State Pesticide or Environmental Control Agency, or Hazardous Waste representative of the nearest EPA Regional Office for guidance. Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

#### **Nonrefillable Containers 5 gallons or less:**

**Container Disposal:** Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available, or puncture and dispose of in a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Triple rinse or pressure rinse container (or equivalent) promptly after emptying. **Triple rinse** as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

#### **Nonrefillable Containers 5 gallons or larger:**

**Container Disposal:** Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available.

Triple rinse or pressure rinse container (or equivalent) promptly after emptying. **Triple rinse** as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. **Pressure rinse** as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

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### TERMS AND CONDITIONS OF USE

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If terms of the following Warranty Disclaimer, Inherent Risks of Use, and Limitation of Remedies are not acceptable, return unopened package at once to the seller for a full refund of purchase price paid. Otherwise, use by the buyer or any other user constitutes acceptance of the terms under Warranty Disclaimer, Inherent Risks of Use and Limitation of Remedies.

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## WARRANTY DISCLAIMER

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~~Cheminova-FMC~~ warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions, subject to the inherent risks set forth below. To the extent consistent with applicable law, ~~FMC Cheminova~~ MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

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## INHERENT RISKS OF USE

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It is impossible to eliminate all risks associated with use of this product. Lack of performance or other unintended consequences may result because of such factors as use of the product contrary to label instructions abnormal conditions (such as excessive rainfall, drought, tornadoes, hurricanes), presence of other materials, the manner of application, or other factors, all of which are beyond the control of ~~FMC Cheminova~~ or the seller. All such risks shall be assumed by buyer.

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## LIMITATION OF REMEDIES

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To the extent consistent with applicable law, the exclusive remedy for losses or damages resulting from this product (including claims based on contract, negligence, strict liability, or other legal theories), shall be limited to, at ~~CheminovaFMC~~'s election, one of the following:

- (1) Refund of purchase price paid by buyer or use for product bought, or
- (2) Replacement of amount of product used

To the extent consistent with applicable law, ~~FMC Cheminova~~ shall not be liable for losses or damages resulting from handling or use of this product unless ~~FMC F-Cheminova~~ is promptly notified of such loss or damage in writing. To the extent allowed by law, ~~FMC Cheminova~~ shall not be liable for special, indirect or consequential damages resulting from the use or handling of this product.

The terms of the Warranty Disclaimer, Inherent Risks of Use, and this Limitation of Remedies cannot be varied by any written or verbal statements or agreements. No employee or sales agent of ~~FMC Cheminova~~ or the seller is authorized to vary or exceed the terms of the Warranty Disclaimer or this Limitation of Remedies in any manner.

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### [ALTERNATE BRAND NAMES:]

- Proaxis CS Insecticide
- Proaxis GIC Insecticide
- Celtic CS Insecticide
- SCION CS Insecticide
- PYROS CS Insecticide
- INDOMINA CS Insecticide
- SCION Insecticide
- PYROS Insecticide
- INDOMINA Insecticide